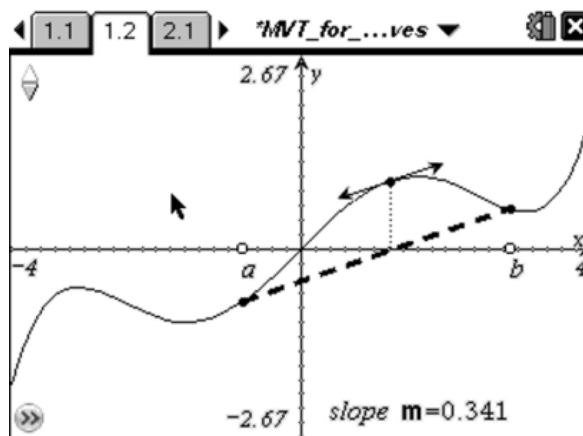
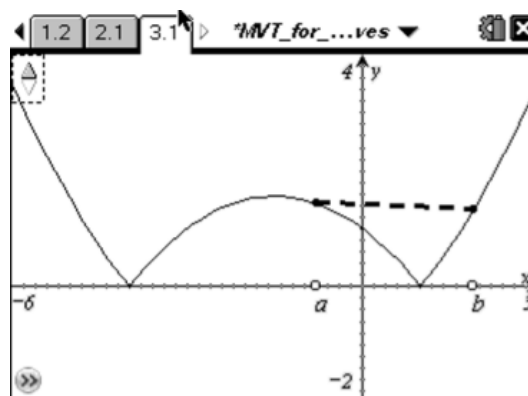


4.2 Mean Value Theorem for Derivatives

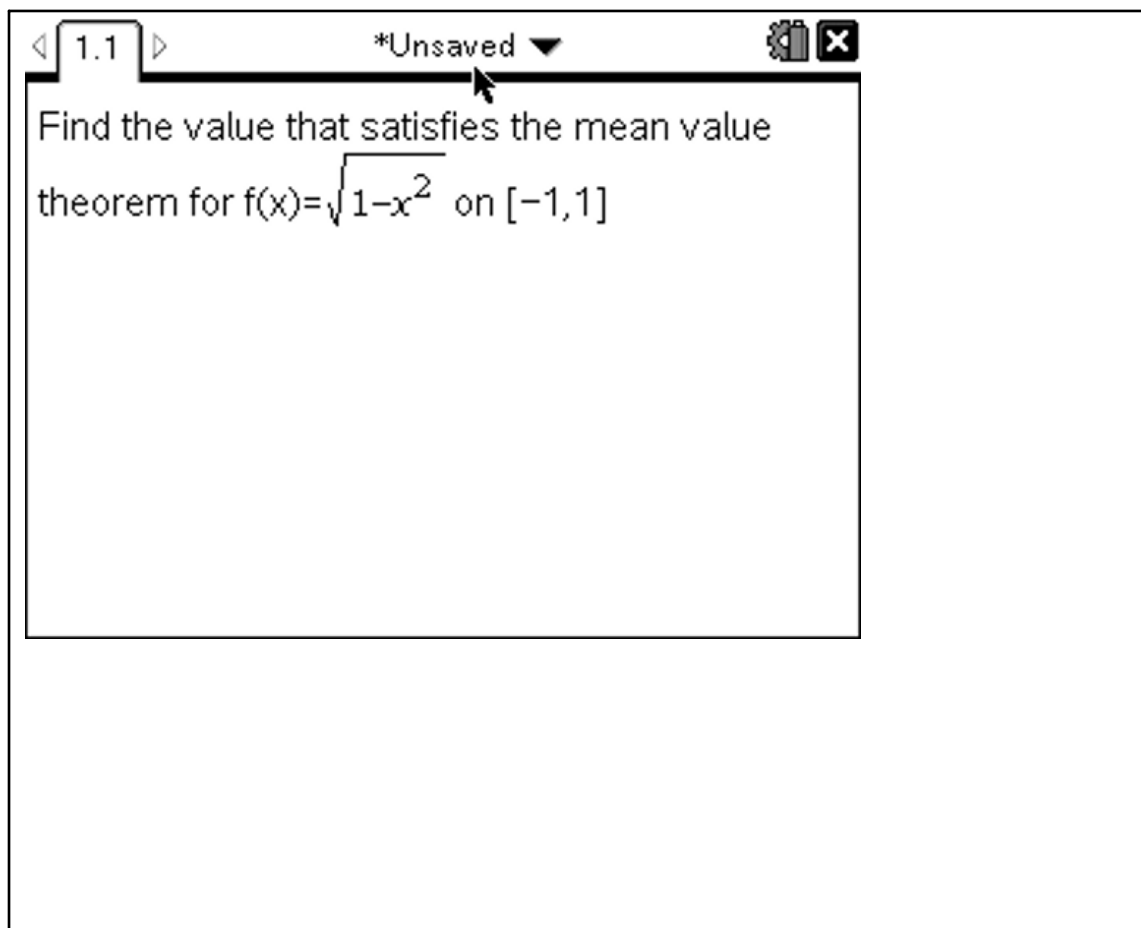


Oct 18-1:10 PM

Find the point that satisfies the mean value theorem



Oct 18-1:13 PM



1.1 *Unsaved

Find the value that satisfies the mean value theorem for $f(x)=\sqrt{1-x^2}$ on $[-1,1]$

Oct 18-1:17 PM

physical interpretation of the mvt -
instantaneous velocity vs average velocity

a car accelerates from zero and takes 8 seconds to cover 352 feet.
The average velocity = $352/8$ ft/sec = 44 ft/sec = 30 mph. What can
we conclude?

Oct 18-1:20 PM

prove: If $f' > 0$ then f increases

Oct 18-1:31 PM

Where is $f(x)=x^3 - 4x$ increasing and where is it decreasing?

Oct 18-1:32 PM